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Georgios Evangelidis, David Lomet, Betty Salzberg
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> **Keywords**: Concurrency, Multi-attribute index, Node consolidation, Recovery

2 External memory algorithms and data structures: dealing with massive data   ▨
Jeffrey Scott Vitter
June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2
Publisher: ACM Press
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> Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

> **Keywords**: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

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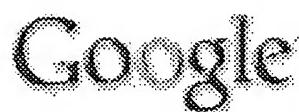
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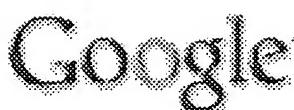
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